



ATA

Makes Life Brighter

Generators & Switchgear Solutions

ATA P350 Perkins, 1706A-E93TAG2 350 KVA

Engine model	Speed rpm	Type of operation	Generator output		Engine power			
					Gross		Net	
			kVA	kWe	kWm	hp	kWm	hp
1706A-E93 TAG2	1500	Prime power	348	278	311.4	417.6	302.4	405.5
		Standby power	384	307	343.0	459.9	334.0	447.9
1706A-E93 TAG1/TAG2	1800	Prime power	357	286	325.8	436.9	310.8	416.8
		Standby power	395	316	358.4	480.6	343.3	460.5

Power rating %	Engine model		
	1706A-E93TAG1	1706A-E93TAG2	1706A-E93TAG1/TAG2
	276.3 kW/1500 rpm Prime	311.4 kW/1500 rpm Prime	325.8 kW/1800 rpm Prime
	g/kWh	g/kWh	g/kWh
25	236	227	240
50	205	199	206
75	194	192	197
100	190	190	194
110	189	190	193

Engine package weights and dimensions		
Length (including air filter)	2083 mm	82.0 in
Width	1091 mm	42.9 in
Height	1366 mm	53.8 in
Weight (dry)	1183 kg	2608.5 lb

Specification		
Number of cylinders	6 vertical in-line	
Bore and stroke	115 x 149 mm	4.5 x 5.9 in
Displacement	9.29 litres	566.9 in ³
Aspiration	Turbocharged aftercooled	
Cycle	4 stroke DI	
Combustion system	Direct injection	
Compression ratio	16.5	
Rotation	Anti-clockwise, viewed on flywheel	
Total lubricating capacity	26-30 litres	6.9-7.9 US gal
Cooling system	Liquid	
Total coolant capacity	33 litres	8.7 US gal

Dimensions

Type	Length (mm)	Width (mm)	Height (mm)	Fuel Tank (L)	Weight (KG)
Open	3400	1200	1700	670	3180
Closed	4420	1600	2260	670	4480

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Technical information

Air inlet

- Standard air cleaners

Control system

- Full electronic control system
- All connectors and wiring looms waterproof and designed to withstand harsh environments
- Flexible and configurable software features and well supported SAE J1939 CAN bus enables highly integrated machines

Cooling system

- Tropical radiator as standard ensures optimal cooling performances all year round in any state
- 50:50 water glycol mix

Flywheels and flywheel housing

- SAE1 flywheel housing

Fuel and fuel system

- Electronic high pressure common rail
- Aluminium sump



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ALTERNATOR SPECIFICATIONS

TAL046 - 230 to 365 kVA - 50 Hz / 288 to 438 kVA - 60 Hz

Insulation class	H	Excitation system 6-wire	SHUNT AREP+ / PMG
Winding pitch	2/3 (wind.6S - 6-wire / wind.6 - 12-wire)	AVR type	R150 R180
Number of wires	6 (12 option)	Excitation system 12-wire (option)	SHUNT AREP+ / PMG
Protection	IP 23	AVR type	R150 R180
Altitude	≤ 1000 m	Voltage regulation (**)	± 0.8 % ± 0.5 %
Overspeed	2250 R.P.M.	Total Harmonic Distortion THD (***) in no-load < 2.5 %	
Air flow 50 Hz	0.48 m³/s	Total Harmonic Distortion THD (***) in linear load < 5 %	
Air flow 60 Hz	0.58 m³/s	Waveform: NEMA = TIF (***)	< 50
AREP+/PMG Short-circuit current = 2.7 In: 5 seconds (*)		Waveform: I.E.C. = THF (***)	< 2%

Control Panel

DSE7320 MKII
Auto Mains (Utility) Failure Control Module
The DSE7320 MKII is a powerful, new generation Auto Mains (Utility) Failure genset control module with a highly sophisticated level of new features and functions, presented in the usual DSE user-friendly format. Suitable for a wide variety of single, diesel or gas Gen-set applications.
OVERALL SIZE
245 mm x 184 mm x 51 mm (9.6" x 7.2" x 2.0")
PANEL CUTOUT SIZE
220 mm x 160 mm (8.7" x 6.3")
MAXIMUM PANEL THICKNESS
8.0 mm (0.3")
PRODUCT VARIANTS
7320-03 - 7320 MKII Auto Mains (Utility) Failure Control Module



Optional configurations:

Engine accessories:

- ☐ Heavy-duty air filter
- ☐ Coolant heater
- ☐ Lubricant oil heater
- ☐ Fuel and Water Separator
- ☐ Lube oil rotary pump

Alternator And Accessories:

- ☐ Leroy somer/stamford
- ☐ Anti condensation heater
- ☐ PMG + AVR ◇ Double bearing
- ☐ alternator High voltage,kV
- ☐ RTDs for Bearing and winding

Cooling System:

- ☐ 55 degree Radiator
- ☐ Remote Radiator

Control System:

- ☐ AMF
- ☐ Parallel
- ☐ Practical type in low temperature environment
- ☐ Control Screen Heater
- ☐ Remote Annunciators
- ☐ Other (ComP, DEIF)

Circuit Breaker:

- ☐ 3/4 poles
- ☐ Fixed/handcart type
- ☐ Electric mechanism

Automatic Transfer Switch (ATS):

- ☐ ATS cabinet
- ☐ Contractor type ATS
- ☐ Motorized changeover type ATS

Start Battery:

- ☐ Nickel-cadmium battery
- ☐ Maintenance-free battery
- ☐ Battery charger and selector switch
- ☐ Charging current meter

External Fuel Tank:

- ☐ Single /double wall fuel tank (500-5000 L)
- ☐ Fuel Transfer pump

Exhaust Muffler:

- ☐ Residential grade
- ☐ Critical grade
- ☐ Hospital grade

Available for voltages :

- ☐ 400/230V, 480/277V, 380/220V, 440/254V, 416/240V, 220/127V, 208/120V

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Prime Rating:

Unlimited hours usage, with an average load factor of 80% over each 24 hours period. 10% overload is available for 1 hour in every 12 hours operation. 0 overload is permitted on standby power.

Standby Rating:

Limited to 500 hours annual usage, with an average load factor of 80% of the published standby power rating over each 24 hours period. Up to 300 hours of annual usage may be run continuously. No over-load is permitted on standby power.

Engine:

Perkins, including air filters, fuel filters, oil filter, starting motor and charging alternator etc.

Warranty policy:

ATA products have a warranty for 12 months or 1000 hours whichever occurs first against any manufacturing defects

Wearing parts (filters), incorrect man-made operation, maintenance failures are excluded from the warranty policy

Radiator:

50°C, fan protective shroud

Fuel Tank:

Capacity of fuel tank is for 8– 10 hours running
Built in fuel tank up to 800 kVA

Circuit Breaker:

3 pole LS MCCB

Alternator Type:

brushless AC alternator

Control system alarms:

Over and Under Speed

Low and High Battery Volt. Start and Stop Failure Over Current Under / Over Generator Voltage

Low Oil Pressure
Emergency stop High engine temperature



STAMFORD
power generation

DSE



**LEROY
SOMER**

Manufacturer reserves the right to make changes in model, technical specifications, color, equipment and accessories without prior notice. All photos are representative and may not reflect exact mode.

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